

Listing Of Claims

The following listing of claims is for the convenience of the Examiner. No claims are amended in this paper.

1. (Previously presented) A message processing device, comprising:
 - a message receiving unit for receiving a message having a header including a valid time duration and a body including data to be transmitted;
 - a duration determination unit for determining whether or not the message is within the valid time duration when the message receiving unit receives the message;
 - a message transferring unit for transferring the message to at least one other message processing device when the duration determination unit gives a positive result; and
 - an application processing unit for reading out data included in the body to execute predetermined processing when the duration determination unit gives a positive result.
2. (Previously presented) A message processing device according to claim 1, the header further including a valid geographical zone;
 - the message processing device further comprising:
 - a zone determination unit for determining whether or not the message processing device is within the valid geographical zone when the message receiving unit receives the message,
 - wherein the message transferring unit transfers the message when the duration determination unit and the zone determination unit give positive results, and the application processing unit reads out the data included in the body to execute predetermined processing when the duration determination unit and the zone determination unit give positive results.
3. (Original) A message processing device according to claim 2, further comprising:

a position detecting unit for detecting a current location of the message processing device,

wherein the determination of the zone determination unit is based on a detection result of the position detecting unit.

4. (Previously presented) A message processing device according to claim 1, the header further including a flag and a valid geographical zone, the flag being set when the message reaches the valid geographical zone, the message processing device further comprising:

a zone determination unit for determining whether or not the message processing device is located within the valid geographical zone when the message receiving unit receives the message,

wherein the message transferring unit transfers the message when the duration determination unit and the zone determination unit give positive results, or when the duration determination unit gives a positive result, the zone determination unit gives a negative result, and the flag is not set; and the application processing unit reads out data included in the body when the duration determination unit and the zone determination unit give positive results.

5. (Original) A message processing system between a plurality of vehicles, each vehicle having the message processing device of claim 1, and a message being transmitted and received among the plurality of vehicles.

6. (Previously presented) A message processing device, comprising:
a message receiving unit for receiving a message having a header including information specifying a valid geographical zone and a body including data to be transmitted;

a zone determination unit for determining whether or not the message processing device is located within the valid geographical zone when the message receiving unit receives the message;

a message transferring unit for transferring the message when the zone determination unit gives a positive result; and

an application processing unit for reading out data included in the body to execute predetermined processing when the zone determination unit gives a positive result.

7. (Original) A message processing device according to claim 6, further comprising:

a position detecting unit for detecting a current location of the message processing device,

wherein the determination of the zone determination unit is based on a detection result by the position detecting unit.

8. (Previously presented) A message processing device in a network of message processing devices, comprising:

a valid duration setting unit for setting a valid time duration for a message;

an application processing unit for generating data to be transmitted; and

a message transmitting unit for transmitting a message having a header including the valid time duration set by the valid duration setting unit and a body including the data generated by the application processing unit;

whereby the valid time duration is checked by a message processing device receiving the message to determine whether to transfer the message and execute predetermined processing based on the data in the message body.

9. (Previously presented) A message processing device according to claim 8, further comprising:

a zone setting unit for setting a valid geographical zone,

wherein the header further includes the valid geographical zone set by the zone setting unit.

10. (Previously presented) The message processing device of claim 9, wherein the zone setting unit sets a range between intersections along a road as the valid geographical zone when a plurality of the intersections are specified.

11. (Previously presented) The message processing device of claim 9, wherein the zone setting unit sets a range of a road specified by a road name as the valid geographical zone when the road name is specified.

12. (Previously presented) The message processing device of claim 8, further comprising:

a zone setting unit for setting a valid geographical zone,
wherein the header further includes the valid geographical zone set by the zone setting unit and a flag set when the message reaches the valid geographical zone.

13. (Previously presented) The message processing device of claim 12, wherein the zone setting unit sets a range between intersections along a road as the valid geographical zone when a plurality of the intersections are specified.

14. (Previously presented) The message processing device of claim 12, wherein the zone setting unit sets a range along a road specified by a road name as the valid geographical zone when the road name is specified.

15. (Previously presented) A message processing device in a network of message processing devices, comprising:

a zone setting unit for setting a valid geographical zone for a message;
an application processing unit for generating data to be transmitted; and
a message transmitting unit for transmitting a message having a header including information specifying the valid geographical zone set by the zone setting unit and a body including the data generated by the application processing unit;
whereby the valid geographical zone is checked by a message processing device receiving the message to determine whether to transfer the message and execute predetermined processing based on the data in the message body.

16. (Previously presented) The message processing unit of claim 15, wherein the zone setting unit sets a range between intersections along a road as the valid geographical zone when a plurality of the intersections are specified.

17. (Previously presented) The message processing unit of claim 15, wherein the zone setting unit sets a range of a road specified by the road name as the valid geographical zone when the road name is specified.

18. (Previously presented) The message processing device in claim 15, wherein the zone setting unit sets a geographical range specified by an administrative district name as the valid geographical zone when the administrative district name is specified.

19. (Previously presented) The message processing device in claim 15, wherein the zone setting unit sets a geographical range enclosed by a plurality of points as the valid geographical zone when a plurality of the points are specified.

20. (Previously presented) The message processing device according to claim 15, further comprising:

a navigation device for displaying a map,

wherein the zone setting unit sets the valid geographical zone through a map display screen displayed by the navigation device.